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| UNIT: SBI3U - GENETICS TITLE OF LESSON : Continuing Intro to genetics | | | |
| **MINISTRY EXPECTATIONS**:  See Genetics etc. | | **MATERIALS**:  Rat Diagram Takeup  Quest Takeup PPT Mendel Factors PPt  Inheritance and Alleles Worksheet  Peas Video  Lab Materials/setup | |
| **STUDENT LEARNING GOALS**:  Explain the idea of mendeilian genetics. How we get an allele from each parent and these combine to give us a particular genotype. This genotype predicts our phenotype based on the principle of dominant and recessive traits. Homozygous dominant individuals and heterozygous individuals will show the dominant trait while homozygous recessive individuals will show the recessive trait. | | **Agenda**  Welcome Back!  Rat Diagrams  Quest  Leftovers – Lab / Video  More Mendel  Handout  Mr Sheps Eval  QUIZ NEXT CLASS! | |
| PRIOR KNOWLEDGE:  As previous class, basic mendelian theory | |
|  | T/L STRATEGIES | RATIONALE | ASSESSMENT |
| A MINDS ON  15 min | 1. **Tell us about your break!**   Ask students if they did anything fun over the break |  |  |
| 1. Take up Rat Diagrams 2. Talk about Quests – Take up? |  |  |
| B ACTION  15-20 min | 1. Leftovers   Per 1 – Peas in a Pod Video  Per 2 – DNA extraction lab |  | Questions about lab  Questions about Video |
| 25 Minutes | 1. Mendel’s factors – PPt and Whiteboard   Dominant/Recessive  Phenotype/Genotype  Heterozygous/Homozygous |  |  |
| Phenotype activity | 3) Hand out Worksheet – To be done for homework |  |  |
| C CONSOLID-ATION &  CONNEC-TION  10 min | 1. **Introduce Next class : Quick Quiz at the start 5 minutes**  **2) Mr. Sheps Performance Review**  Keep it up!, Areas for Improvement, other comments - anonymous | | |
| NEXT STEPS | **Homework – a bit more tonight than usual –**  **Quick Quiz tomorrow**  Read P 184-191, do P190 q 1,2, P191 q1,2  Fill out Definition Sheet  Do Genotype/Phenotype Sheet  Continuations:  How can individuals who have both heterozygous and homozygous dominant genotypes both yield the same phenotype  How can we predict offspring?  Are all phenotypes completely dominant or recessive?  Next class: monohybrid crosses  Perhaps introduce dihybrid crosses |  |  |